HW-59
EPA Validated Data Summary Report
Dimock Residential Sampling
Sample Date: 2/14/2012

Sample Number	Analyte	Result			Trigger Levels		EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW59	1-Butanol	10,000.00	U	ug/L	1,500.00	ug/L				
HW59	1-Propanol	10,000.00	U	ug/L						
HW59	2-Butanol	10,000.00	U	ug/L						
HW59	Ethanol	10,000.00	U	ug/L						
HW59	Methanol	10,000.00	U	ug/L	7,800.00	ug/L				
HW59	Anionic Surfactants	0.01	U	mg/L						
HW59	Heterotrophic Plate Count		R	cfu/1mL						
HW59	Total Coliform Bacteria	1.00	UJ	cfu/100mL	0.00	cfu/100mL	5.00 %*			
HW59	Ethane	1.20	U	ug/L						
HW59	Ethene	1.10	U	ug/L						
HW59	Methane	1.20	U	ug/L	28,000.00	ug/L				
HW59	2-Butoxyethanol	5.00	U	ug/L						
HW59	2-Methoxyethanol		R	ug/l	78.00	ug/L				
HW59	2-Methoxyethanol	10.00	U	ug/L	78.00	ug/L				
HW59	Diethylene Glycol	25.00	U	ug/L	8,000.00	ug/L				
HW59	Ethylene Glycol	10.00	U	mg/L	31,000.00	ug/L				
HW59	Tetraethylene glycol	25.00	U	ug/L	8,000.00	ug/L				
HW59	Triethylene glycol	25.00	U	ug/L	8,000.00	ug/L				
HW59	Bromide	0.50	U	mg/L						
HW59	Chloride	10.90		mg/L				250.00 mg/L		250.00 mg/L
HW59	Fluoride	0.10	U	mg/L	0.62	mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW59	Sulfate	11.00		mg/L				250.00 mg/L		250.00 mg/L
HW59	Mercury	0.20	U	ug/L	4.30	ug/L	2.00 ug/L		2.00 ug/L	
HW59-F	Mercury	0.20	U	ug/L	4.30	ug/L	2.00 ug/L		2.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW59	Aluminum	30.00 U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW59-F	Aluminum	30.00 U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW59	Antimony	2.00 U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW59-F	Antimony	2.00 U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW59	Arsenic	1.00 U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW59-F	Arsenic	1.00 U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW59	Barium	88.30 ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW59-F	Barium	91.20 ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW59	Beryllium	1.00 U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW59-F	Beryllium	1.00 U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW59	Boron	50.00 U ug/L	3,100.00 ug/L				
HW59-F	Boron	50.00 U ug/L	3,100.00 ug/L				
HW59	Cadmium	1.00 U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW59-F	Cadmium	1.00 U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW59	Calcium	14,500.00 ug/L					
HW59-F	Calcium	15,300.00 ug/L					
HW59	Chromium	2.00 U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW59-F	Chromium	2.00 U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW59	Cobalt	1.00 U ug/L	4.70 ug/L				
HW59-F	Cobalt	1.00 U ug/L	4.70 ug/L				
HW59	Copper	27.30 ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW59-F	Copper	25.20 ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW59	Iron	100.00 U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW59-F	Iron	100.00 U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW59	Lead	1.00 ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW59-F	Lead	1.20 ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW59	Lithium	200.00 U ug/L	31.00 ug/L				
HW59-F	Lithium	200.00 U ug/L	31.00 ug/L				
HW59	Magnesium	2,400.00 ug/L					

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HW59-F	Magnesium	2,540.00		ug/L					
HW59	Manganese	1.70		ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW59-F	Manganese	1.70		ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW59	Nickel	1.10		ug/L	300.00 ug/L				
HW59-F	Nickel	1.20		ug/L	300.00 ug/L				
HW59	Potassium	3,270.00		ug/L					
HW59-F	Potassium	3,460.00		ug/L					
HW59	Selenium	5.00	U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW59-F	Selenium	5.00	U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW59	Silver	1.00	U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW59-F	Silver	1.00	U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW59	Sodium	5,710.00		ug/L	20,000.00 ug/L				
HW59-F	Sodium	6,010.00		ug/L	20,000.00 ug/L				
HW59	Strontium	200.00	U	ug/L	9,300.00 ug/L				
HW59-F	Strontium	200.00	U	ug/L	9,300.00 ug/L				
HW59	Thallium	1.00	U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW59-F	Thallium	1.00	U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW59	Tin	200.00	U	ug/L	9,300.00 ug/L				
HW59-F	Tin	200.00	U	ug/L	9,300.00 ug/L				
HW59	Titanium	200.00	U	ug/L					
HW59-F	Titanium	200.00	U	ug/L					
HW59	Uranium	1.00	U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW59-F	Uranium	1.00	U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW59	Vanadium	5.00	U	ug/L	78.00 ug/L				
HW59-F	Vanadium	5.00	U	ug/L	78.00 ug/L				
HW59	Zinc	11.70		ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW59-F	Zinc	14.90		ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW59	Oil and Grease	5.10	UJ	mg/L					
HW59	Total Dissolved Solids	77.00		mg/L			500.00 mg/L		500.00 mg/L

Sample Number	Analyte	Result			Trigger Levels		EPA Primary MCLs		EPA Secondary MCLs		DEP Primary MCLs		DEP Secondary MCLs	
HW59	Total Suspended Solids	10.00	U	mg/L										
HW59	1-Methylnaphthalene	4.76	U	ug/l	97.00	ug/L								
HW59	Acenaphthene	4.76	U	ug/l	400.00	ug/L								
HW59	Acenaphthylene	4.76	U	ug/l										
HW59	Acetophenone	4.76	U	ug/l	1,500.00	ug/L								
HW59	Anthracene	4.76	U	ug/l	1,300.00	ug/L								
HW59	Atrazine	57.10	U	ug/l	26.00	ug/L	3.00	ug/L			3.00	ug/L		
HW59	Benzo(a)anthracene	4.76	U	ug/l	2.90	ug/L								
HW59	Benzo(a)pyrene	4.76	U	ug/l	0.29	ug/L	0.20	ug/L			0.20	ug/L		
HW59	Biphenyl	4.76	U	ug/l										
HW59	Bromophenyl-4 Phenyl Ether	4.76	U	ug/l										
HW59	Butylbenzyl phthalate	4.76	U	ug/l	1,400.00	ug/L								
HW59	Caprolactam	4.76	U	ug/l	7,700.00	ug/L								
HW59	Carbazole	4.76	U	ug/l										
HW59	Chlorobenzenamine-4		R	ug/l	3.20	ug/L								
HW59	Chloronaphthalene-2	4.76	U	ug/l	550.00	ug/L								
HW59	Chlorophenol-2	4.76	U	ug/l	71.00	ug/L								
HW59	Chlorophenyl-4 phenyl ether	4.76	U	ug/l										
HW59	Chrysene	4.76	U	ug/l	290.00	ug/L								
HW59	Cresol, parachloro meta-	4.76	U	ug/l										
HW59	Cresol-4,6-dinitro-ortho	57.10	UJ	ug/l										
HW59	Cresol-o	4.76	U	ug/l	720.00	ug/L								
HW59	Cresol-p	4.76	U	ug/l	72.00	ug/L								
HW59	Dibenz(a,h)anthracene	4.76	U	ug/l	0.29	ug/L								
HW59	Dibenzofuran	4.76	U	ug/l										
HW59	Dichlorobenzidine-3,3'		R	ug/l	11.00	ug/L								
HW59	Dichlorophenol-2,4	4.76	U	ug/l	35.00	ug/L								
HW59	Dimethylphenol, 2,4-	4.76	U	ug/l	270.00	ug/L								
HW59	Dinitrophenol-2,4	57.10	U	ug/l	30.00	ug/L								

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HW59	Dinitrotoluene-2,4	4.76	U	ug/l					
HW59	Dinitrotoluene-2,6	4.76	U	ug/l					
HW59	Ether, bis(2-chloroethyl)	4.76	U	ug/l	1.20 ug/L				
HW59	Ether-bis(2-chloroisopropyl)	4.76	U	ug/l					
HW59	Fluoranthene	4.76	U	ug/l	630.00 ug/L				
HW59	Fluoranthene benzo(k)	4.76	U	ug/l	29.00 ug/L				
HW59	Fluoranthene-benzo(b)	4.76	U	ug/l	5.60 ug/L				
HW59	Fluorene	4.76	U	ug/l	220.00 ug/L				
HW59	Hexachlorobenzene	4.76	U	ug/l	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW59	Hexachlorobutadiene	0.50	U	ug/l	26.00 ug/L				
HW59	Hexachlorobutadiene	4.76	U	ug/l	26.00 ug/L				
HW59	Hexachlorocyclopentadiene	4.76	U	ug/l	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW59	Hexachloroethane	4.76	U	ug/l	5.10 ug/L				
HW59	Isophorone	4.76	U	ug/l	6,700.00 ug/L				
HW59	Methane, bis(2-chloroethoxy)	4.76	U	ug/l	47.00 ug/L				
HW59	Methylnaphthalene-2	4.76	U	ug/l	27.00 ug/L				
HW59	Naphthalene	0.50	U	ug/l	14.00 ug/L				
HW59	Naphthalene	4.76	U	ug/l	14.00 ug/L				
HW59	Nitroaniline, ortho	4.76	U	ug/l	150.00 ug/L				
HW59	Nitroaniline-3		R	ug/l					
HW59	Nitrobenzenamine-4	4.76	U	ug/l	61.00 ug/L				
HW59	Nitrobenzene	4.76	U	ug/l	12.00 ug/L				
HW59	Nitrophenol-2	4.76	U	ug/l					
HW59	Nitrophenol-4	9.52	U	ug/l					
HW59	Nitrosodimethylamine-n	4.76	U	ug/l	0.04 ug/L				
HW59	Nitrosodiphenylamine-n	4.76	U	ug/l	1,000.00 ug/L				
HW59	Pentachlorophenol	4.76	U	ug/l	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW59	Perylene-benzo(ghi)	4.76	U	ug/l					
HW59	Phenanthrene	4.76	U	ug/l					

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HW59	Phenol	4.76 U	ug/l	4,500.00 ug/L				
HW59	Phthalate, bis(2-ethylhexyl) (DEHP)	4.76 U	ug/l	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW59	Phthalate, Dimethyl	4.76 U	ug/l	1,400.00 ug/L				
HW59	Phthalate, di-n-butyl-	4.76 U	ug/l	670.00 ug/L				
HW59	Phthalate, di-n-octyl	4.76 U	ug/l					
HW59	Phthalate-diethyl	4.76 U	ug/l	11,000.00 ug/L				
HW59	Propylamine,n-nitroso di-n-	4.76 U	ug/l	0.93 ug/L				
HW59	Pyrene	4.76 U	ug/l	87.00 ug/L				
HW59	Pyrene-indeno(1,2,3-cd)	4.76 U	ug/l	3.00 ug/L				
HW59	Tetrachlorobenzene, 1,2,4,5-	4.76 U	ug/l	1.20 ug/L				
HW59	Tetrachlorophenol, 2,3,4,6-	4.76 U	ug/l	170.00 ug/L				
HW59	Trichlorophenol-2,4,5	4.76 U	ug/l	890.00 ug/L				
HW59	Trichlorophenol-2,4,6	4.76 U	ug/l	9.04 ug/L				
HW59	TPH - Diesel Range Organics	250.00 U	ug/L					
HW59	TPH - Gasoline Range Organics	50.00 U	ug/L					
HW59	TPH - Oil Range Organics	1,000.00 U	ug/L					
HW59	1,2-Dibromo-3-chloropropane (DBCP)	2.00 U	ug/l	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW59	4-Methyl-2-pentanone	2.00 U	ug/l	1,000.00 ug/L				
HW59	Acetone	2.00 U	ug/l					
HW59	Benzene	0.50 U	ug/l		5.00 ug/L		5.00 ug/L	
HW59	Bromobenzene	0.50 U	ug/l					
HW59	Bromoform	0.50 U	ug/l		80.00 ug/L		80.00 ug/L	
HW59	Butylbenzene	0.50 U	ug/l					
HW59	Butylbenzene, sec-	0.50 U	ug/l					
HW59	Butylbenzene, tert-	0.50 U	ug/l					
HW59	Carbon disulfide	0.50 U	ug/l					
HW59	Carbon Tetrachloride	0.50 U	ug/l		5.00 ug/L		5.00 ug/L	
HW59	Chlorobenzene	0.50 U	ug/l		100.00 ug/L			
HW59	Chlorobromomethane	0.50 U	ug/l					

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HW59	Chloroethane	0.50	U	ug/l					
HW59	Chloroform	0.50	U	ug/l		80.00 ug/L		80.00 ug/L	
HW59	Chlorotoluene	0.50	U	ug/l	180.00 ug/L				
HW59	Chlorotoluene-p	0.50	U	ug/l	190.00 ug/L				
HW59	Cyclohexane	0.50	U	ug/l					
HW59	Dibromochloromethane	0.50	U	ug/l		80.00 ug/L		80.00 ug/L	
HW59	Dibromoethane-1,2	0.50	U	ug/l	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW59	Dibromomethane	0.50	U	ug/l					
HW59	Dichlorobenzene-1,2	0.50	U	ug/l	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW59	Dichlorobenzene-1,3	0.50	U	ug/l					
HW59	Dichlorobenzene-1,4	0.50	U	ug/l	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW59	Dichlorobromomethane	0.50	U	ug/l		80.00 ug/L		80.00 ug/L	
HW59	Dichlorodifluoromethane	0.50	U	ug/l					
HW59	Dichloroethane-1,1	0.50	U	ug/l	240.00 ug/L				
HW59	Dichloroethane-1,2	0.50	U	ug/l	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW59	Dichloroethene-1,2 trans	0.50	U	ug/l		100.00 ug/L		100.00 ug/L	
HW59	Dichloroethylene-1,1	0.50	U	ug/l		7.00 ug/L		7.00 ug/L	
HW59	Dichloroethylene-1,2 cis	0.50	U	ug/l		70.00 ug/L		70.00 ug/L	
HW59	Dichloropropane, 1,2-	0.50	U	ug/l	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW59	Dichloropropane, 1,3-	0.50	U	ug/l	290.00 ug/L				
HW59	Dichloropropane, 2,2-	0.50	U	ug/l					
HW59	Dichloropropene, 1,1-	0.50	U	ug/l					
HW59	Dichloropropene, 1,3 cis-	0.50	U	ug/l					
HW59	Dichloropropene, 1,3 trans-	0.50	U	ug/l					
HW59	Ethylbenzene	0.50	U	ug/l		700.00 ug/L		700.00 ug/L	
HW59	Freon 113	0.50	U	ug/l					
HW59	Hexanone, 2-	2.00	U	ug/l	34.00 ug/L				
HW59	Isopropylbenzene	0.50	U	ug/l					
HW59	Isopropylbenzene-4,methyl-1	0.50	U	ug/l					

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HW59	m,p-Xylene	1.00 U	ug/l		10,000.00 ug/L		10,000.00 ug/L	
HW59	Methyl acetate	0.50 U	ug/l					
HW59	Methyl bromide	0.50 U	ug/l					
HW59	Methyl chloride	0.50 U	ug/l					
HW59	Methyl cyclohexane	0.50 U	ug/l					
HW59	Methyl ethyl ketone	2.00 U	ug/l	4,900.00 ug/L				
HW59	Methyl tertiary butyl ether (MTBE)	0.50 U	ug/l					
HW59	Methylene chloride	0.50 U	ug/l		5.00 ug/L		5.00 ug/L	
HW59	Propylbenzene-n	0.50 U	ug/l					
HW59	Styrene	1.00 U	ug/l		100.00 ug/L		100.00 ug/L	
HW59	Tetrachloroethane, 1,1,1,2-	0.50 U	ug/l	50.00 ug/L				
HW59	Tetrachloroethane, 1,1,2,2-	0.50 U	ug/l	6.60 ug/L				
HW59	Tetrachloroethylene	0.50 U	ug/l		5.00 ug/L		5.00 ug/L	
HW59	Toluene	0.50 U	ug/l		1,000.00 ug/L		1,000.00 ug/L	
HW59	Trichlorobenzene-1,2,3	0.50 U	ug/l	5.20 ug/L				
HW59	Trichlorobenzene-1,2,4	0.50 U	ug/l	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW59	Trichloroethane-1,1,1	0.50 U	ug/l	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW59	Trichloroethane-1,1,2	0.50 U	ug/l	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW59	Trichloroethylene	0.50 U	ug/l		5.00 ug/L		5.00 ug/L	
HW59	Trichlorofluoromethane	0.50 U	ug/l					
HW59	Trichloropropane-1,2,3	0.50 U	ug/l	0.07 ug/L				
HW59	Trimethylbenzene-1,2,4	0.50 U	ug/l	15.00 ug/L				
HW59	Trimethylbenzene-1,3,5	0.50 U	ug/l	87.00 ug/L				
HW59	Vinyl acetate	0.50 U	ug/l					
HW59	Vinyl chloride	0.50 U	ug/l		2.00 ug/L		2.00 ug/L	
HW59	Xylene-o	1.00 U	ug/l		10,000.00 ug/L		10,000.00 ug/L	
HW59	Nitrogen, Nitrite + Nitrate	2.27	mg/L		10.00 mg/L		10.00 mg/L	
HW59	Total Nitrogen	2.20	mg/L					
HW59	Total Phosphorus as P	0.05 U	mg/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs

Sample Number – Code that is used to identify the particular sample. See additional information below:

HW## – Identifies the sample location and indicates that it was collected at well head or closest point to the well head.
F – Indicates that the sample was filtered following collection. The purpose of filtering the sample is to remove any particulates in order to find what metals are actually dissolved in the water sample.
Z – Identifies a duplicate sample. Duplicate samples are collected for every ten samples collected to test the reproducibility of sampling and analytical procedures.
P – Indicates that the sample was collected at the kitchen tap. In some cases this may be following any treatment that the residence may have.
A/B – Designates which residence the sample was collected for sample locations with multiple residences using the same water source (may be a well or a spring).
RO – Indicated that the sample was collected from a residence containing a reverse osmosis treatment system.
N – Designates that the sample was collected from the new well for locations with multiple wells.

Analyte – General term for a substance in the sample. The lab does testing to find specific analytes, or substance in the water sample. The report lists each analyte that the lab tested for and what amounts were found.

TPH - Total Petroleum Hydrocarbons

Result and Units – identifies the actual result for the particular analyte and the measurement used for the particular type of sample. The results may include the following units for the various water sample analyses:

µg /L – Micrograms per liter (abbreviated as µg /L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per billion or ppb. Drinking water results are usually reported in µg /L.
mg/L – Milligrams per liter (abbreviated as mg/L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per million or ppm.
cfu/100 mL – Total Coliform Bacteria results are reported as colony forming units (cfu) per milliliters of water. Coliform bacteria is not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present.
cfu/1mL – Heterotrophic Plate Count Bacteria (HPC) are reported as colony forming units (cfu) per milliliter of water. HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.
Absent or Present – Fecal Coliform Bacteria are reported as either being Absent or Present. Fecal Coliform Bacteria are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches,

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs

Trigger Level – established for this project, the trigger levels are based on risk-based screening levels and/or standards for public water supplies. A yellow highlighted result represents an analytical result greater than the established trigger level. Results exceeding a trigger level are referred to an EPA toxicologist for further review.
EPA Primary MCLs – the primary maximum contaminant levels (MCLs) are legally enforceable standards established under the Safe Drinking Water Act to protect public health by limiting the levels of contaminants in public drinking water systems. The MCL is the amount of an analyte (substance) that can be present in a water sample that the government considers acceptable to drink. EPA considers the MCLs when evaluating results from residential drinking water wells.
EPA Secondary MCLs - secondary MCLs are non-enforceable standards regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to public water systems, but does not require systems to comply. However, states may choose to adopt them as enforceable standards.
DEP MCLs (Primary and Secondary) – Chapter 109, Pennsylvania Safe Drinking Water Regulations, defines MCL as the maximum permissible level of a contaminant in water which is delivered to a user of a public water system, and includes the primary and secondary MCLs established under the Federal Safe Drinking Water Act, and MCLs adopted under the act.

* No more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or E. coli if two consecutive TC-positive samples, and one is also positive for E.coli fecal coliforms, system has an acute MCL violation.
** EPA has not established an MCL for lead or copper. Lead and copper are regulated by a Treatment Technique that requires public drinking water systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water system must take additional steps. For lead, the action level is 15 ug/L, and for copper is 1,300 ug/L.
*** The DEP Primary MCLs for lead (5 ug/L) and copper (1,000 ug/L) are applicable only to bottled, vended, retail and bulk water hauling systems, otherwise the DEP uses the federal action levels for lead (15 ug/L), and for copper (1,300 ug/L).

Validation Result Qualifiers - EPA performs a quality check on the lab results. After this quality check, EPA may mark the measurement of certain analytes with a qualifier to give additional information about the measurement. This information can apply to 1) how certain EPA is that the lab detected the analyte and 2) how certain EPA is of the measurement of the analyte once detected. If there is no qualifier by the result, the detection and measurement of the analyte are certain

U – Indicates that the analyte was not detected. If there is a number next to the U, this number is the amount of analyte that would have to be present to be detected by the lab given the particular method and/or instrumentation.
J – This means that the analyte was detected, but the value of the result is an estimate.
UJ - The U before the J means that the analyte was not detected in the sample, but this result may be inaccurate. Some analyte may be present.
R – Indicates that the data has been rejected. For glycol analyses, data with detected concentrations above the Method Detection Limit (MDL) and less than the Reporting Limit (RL) were rejected due to the laboratory not using a second column and/or gas chromatography with mass spectrometry to confirm the identity of the compound listed. For Heterotrophic Plate Count analysis, data were rejected if the laboratory did not run a method blank (i.e. sterility control) for each series of samples plated to determine whether the test samples could have been contaminated during analysis. For semivolatile organic compound analysis, non-detect data have been rejected due to low recoveries of required method quality control checks.
MDL – Is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the concentration of the substance is greater than zero.
RL – Is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions, typically set at the lowest standard in the calibration curve